

PATENT SPECIFICATION



Application Date : Oct. 31, 1919. No. 26,830 / 19.

158,616

Complete Left : July 26, 1920.

Complete Accepted : Jan. 31, 1921.

PROVISIONAL SPECIFICATION.

Improvements in Motor Cycles, Scooters and like Vehicles.

We, THE GLOUCESTERSHIRE AIRCRAFT COMPANY, LIMITED, and HAROLD DALTON BOULTBEE, both of Sunningend Works, Cheltenham, Engineers, do hereby declare the nature of this invention to be as follows:—

This invention relates to improvements in motor cycles, scooters and like vehicles.

According to this invention the frame of the vehicle is connected to the steering head by two leaf springs fixed one on each side of the frame and two other leaf springs or radius rods secured to the two sides of the frame and the steering head.

This invention is particularly applicable to vehicles made as described in our former Specification No. 141,194, in which

case the springs or radius rods were secured to the side pieces or the continuous piece described therein. Or the springs or radius rods may be secured to the casing of the engine. The side pieces or continuous piece may be secured at the rear end by leaf springs connected to the ends of levers pivoted at the ends of the axle of the rear wheel.

Dated this 29th day of October, 1919.

THE GLOUCESTERSHIRE AIR-
CRAFT COMPANY, LIMITED,
A. W. MARTYN,
D. LONGDEN.

Directors.

C. H. DEVEY,
Secretary.

HAROLD D. BOULTBEE.

COMPLETE SPECIFICATION.

Improvements in Motor Cycles, Scooters and like Vehicles.

We, THE GLOUCESTERSHIRE AIRCRAFT COMPANY, LIMITED, a Company organised under the laws of Great Britain, and HAROLD DALTON BOULTBEE, British subject, both of Sunningend Works, Cheltenham, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to improvements in motor cycles, scooters and like vehicles.

According to this invention the frame of the vehicle is connected to the steering head by two leaf springs fixed one on each side of the frame and by two other

leaf springs or radius rods secured one on each side of the frame and to the steering head.

This invention is particularly applicable to vehicles made as described in our former Specification No. 141,194, in which case the springs or radius rods are secured to the side pieces or the continuous piece described therein. Or the springs or radius rods may be secured to the casing of the engine.

The accompanying drawings show two vehicles made in accordance with our invention. Figure 1 is a side elevation and Figure 2 a plan of a scooter in which the steering head is connected by two leaf

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springs secured to the frame. Figure 3 is a side elevation and Figure 4 a plan of a motor cycle in which the leaf springs are secured to the casing of the engine.

5 In Figures 1 and 2, the frame *a* of the vehicle is connected to the steering head *b* by leaf springs *c, c* which are bolted one on each side of the frame. On the frame *a* are pillars *d, d* which are connected to the steering head *b* by radius rods *e, e*. The rear end of the frame *a* is connected to the ends of levers *f, f* at the ends of the rear axle *g* by leaf springs *h, h* and radius rods *j, j*.

15 In Figures 3 and 4, the leaf springs *c, c* and the radius rods *e, e* are secured to the casing of the engine *k* and similarly the leaf springs *h, h* and the radius rods *j, j* are also secured to the casing.

20 In this arrangement the casing of the engine constitutes the frame of the machine.

In both arrangements leaf springs may be substituted for the radius rods *e, e*.

25 Having now particularly described and ascertained the nature of our said invention and in what manner the same is

to be performed, we declare that what we claim is:—

1. In motor cycles, scooters or like 30 vehicles, connecting the frame of the vehicle to the steering head by two leaf springs secured one on each side of the frame and by two other leaf springs or radius rods secured one on each side of 35 the frame, substantially as described.

2. In motor cycles, scooters or like vehicles, connecting the casing of the engine to the steering head by two leaf springs secured one on each side of the 40 casing and by two other leaf springs or radius rods secured one on each side of the casing, substantially as described.

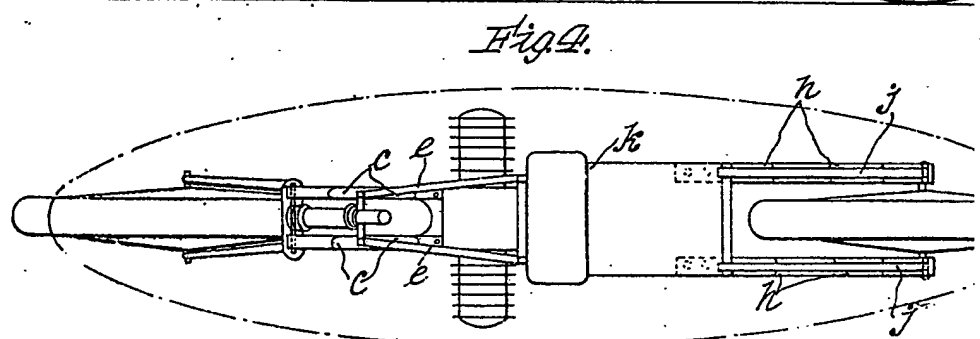
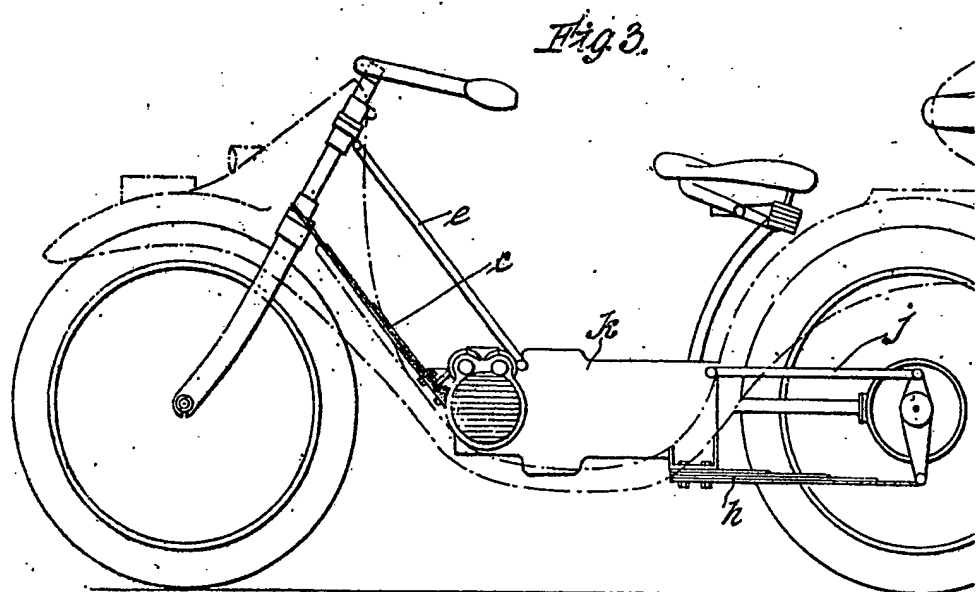
3. Motor cycles, scooters or like vehicles, as claimed in Claims 1 or 2 sub- 45 stantially as described and illustrated in the drawings.

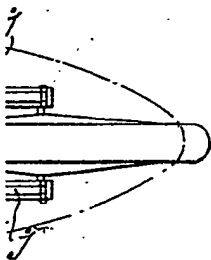
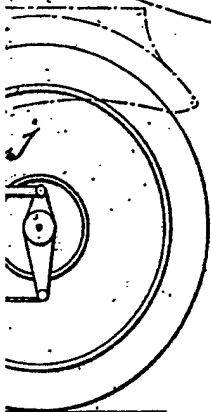
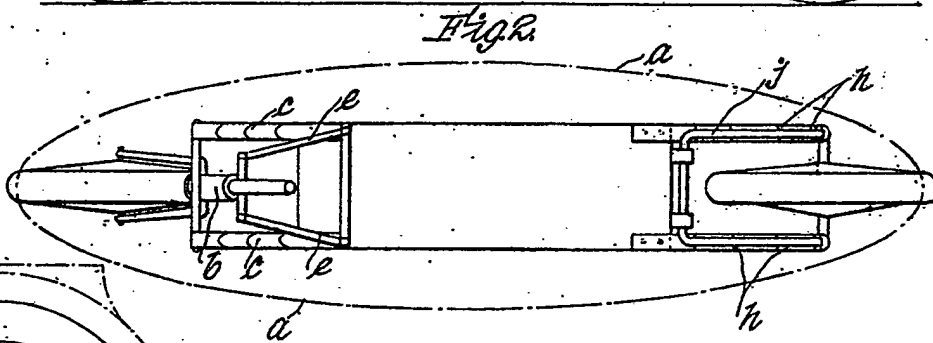
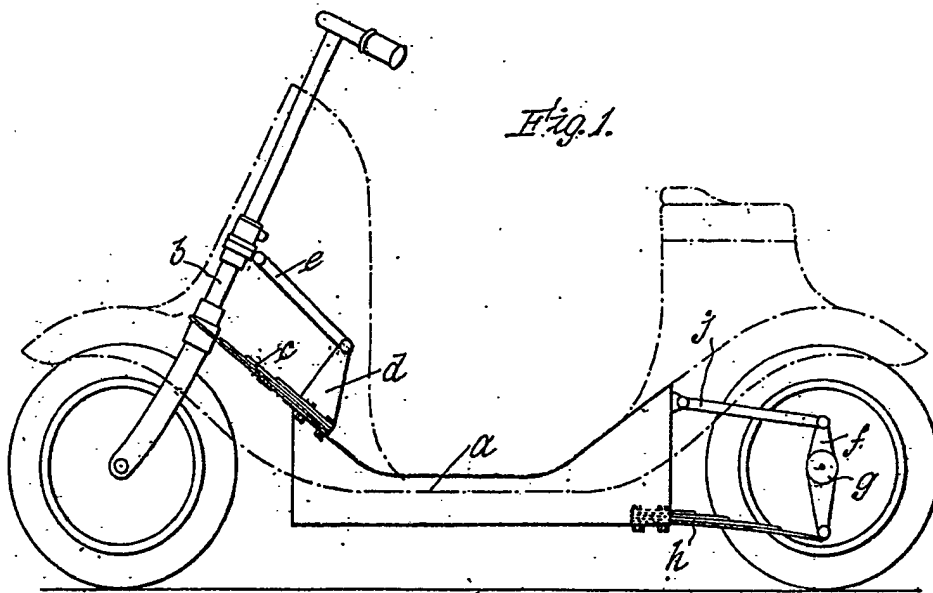
Dated the 20th day of July, 1920.

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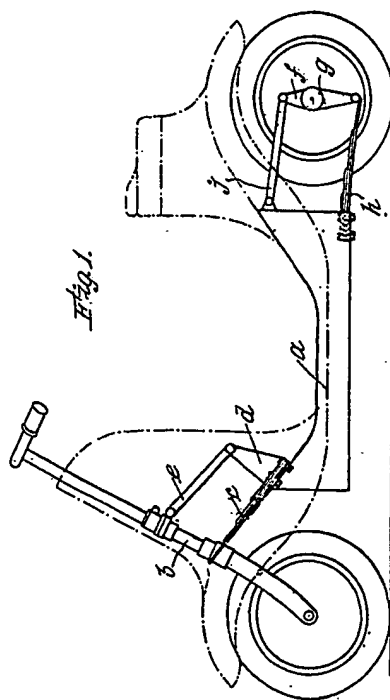


Fig. 1.

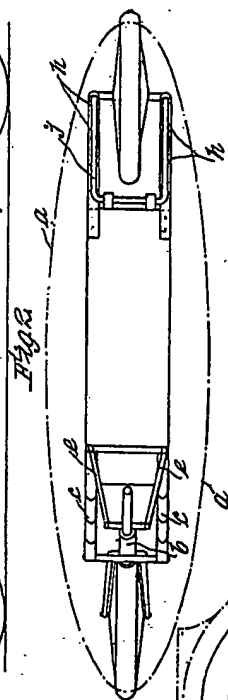


Fig. 2.

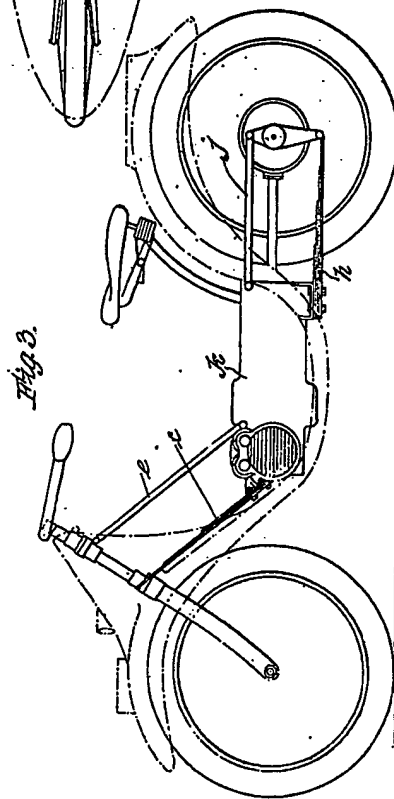


Fig. 3.

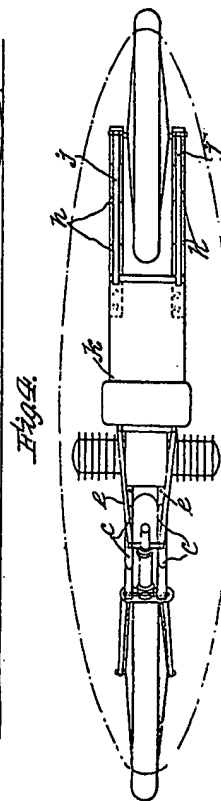


Fig. 4.